

Waves & Sound Review Sheet

1. A traveling disturbance that carries energy from one place to another is called:
2. The matter or substance the wave moves through:
3. Waves that require a medium are called:
4. An example of a mechanical wave is:
5. Waves that do not require a medium are called:
An example is:
6. Draw and label the following parts of a wave: Crest, Rest, Trough, Wavelength, Amplitude
7. The number of complete waves per unit of time is called:
8. Frequency is measured in:
9. A wave in which the motion of the medium is at right angles to the direction of the wave is what type of wave:
10. The motion of the medium is parallel to the direction of the wave in a series of compressions and rarefactions is what type of wave:
11. The equation to find the speed of a wave is:
12. The law of reflection states that:
13. The bending of waves due to a change in speed:
14. The bending of waves around the edge of an obstacle:
15. What is the difference between constructive and destructive interference?
16. _____ is produced when matter _____ and travels as a _____ wave
17. The speed depends on the properties of the:
18. Temperature: Sound travels _____ temperatures
19. Elasticity (ability to rebound): The **more elastic** the medium the **faster** the sound.
_____ are more elastic than _____
20. Density: The _____ the medium the _____ the sound travels, its particles do not move as fast
21. Change in pitch of a moving object as it comes towards and moves away from you is called the:

22. The _____ depends on the frequency of the waves.
23. What is the difference between ultrasonic and infrasonic?
24. The amount of energy in a certain time, relates to amplitude is the definition of:
25. How is music different from sound?
26. When sound waves are sent in a straight line down until it reaches a barrier and is reflected back:

2. Does listening to music affect how a student scores on a test?

IV: _____

DV: _____

Hypothesis: _____

4. What effect does smiling have on a teacher giving homework?

IV: _____

DV: _____

Hypothesis: _____

7. Will a bird nest in a tree with no leaves?

IV: _____

DV: _____

Hypothesis: _____
